FIGURE 1

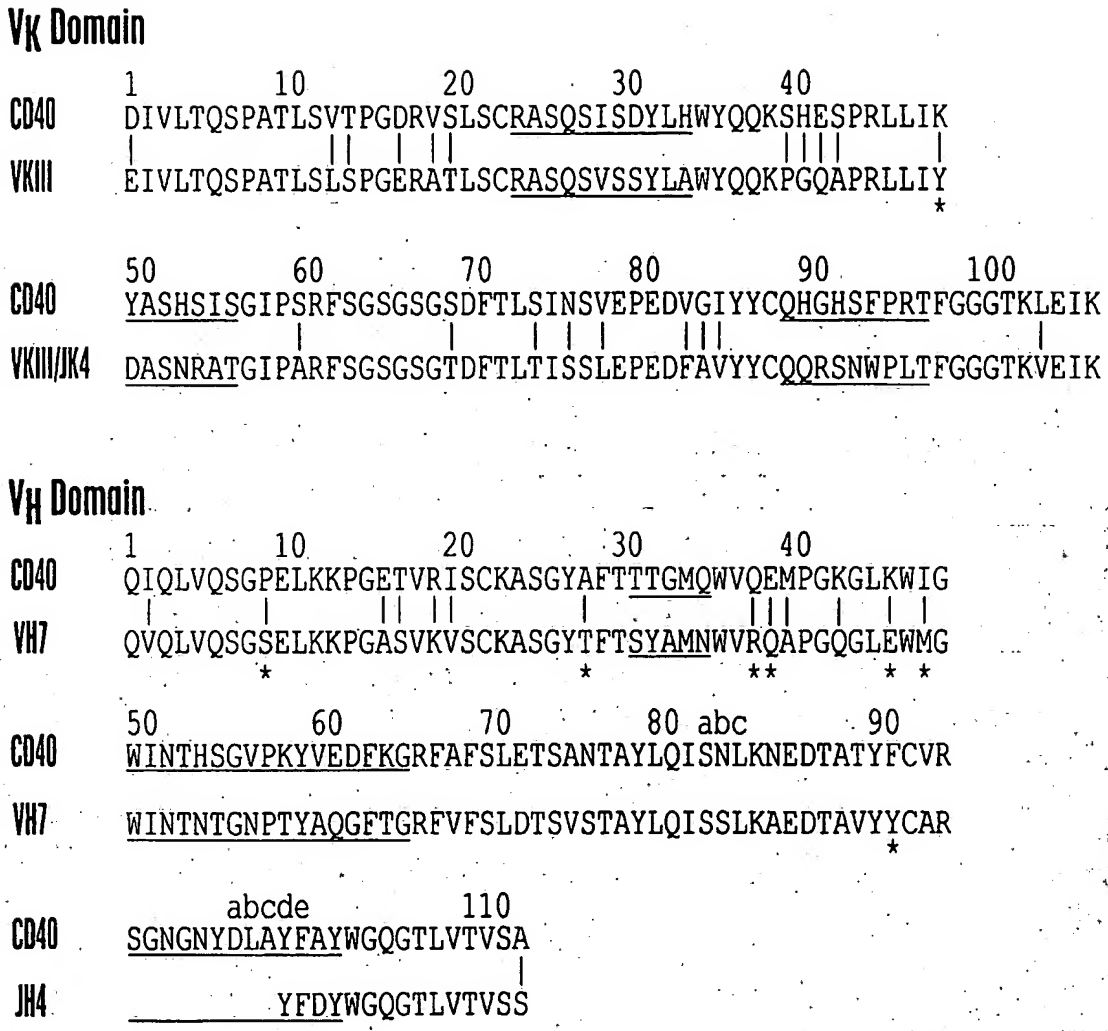

VK Domain
1 10 20 30 40
CD40 DIVLTQSPATLSVTPGDRVSLSCRASQSISDYLHWYQQKSHESPRLLIK
VKIII EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIY
50 60 70 80 90 100
CD40 YASHSISGIPSRFSGSGSGSDFTLSINSVEPEDVGIYYCQHGHSFPRTFGGGTKLEIK
VKIII/JK4 DASNRATGIPARFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPLTFGGGTKVEIK
VH Domain
1 10 20 30 40
CD40 QIQLVQSGPELKKPGETVRISCKASGYAFTTTGMQWVQEMPGKGLKWIG
VH7 QVQLVQSGSELKKPGASVKVSCKASGYTFTSYAMNWVRQAPGQGLEWMG
50 60 70 80 abc 90
CD40 WINTHSGVPKYVEDFKGRFAFSLETSANTAYLQISNLKNEDTATYFCVR
VH7 WINTNTGNPTYAQGFTGRFVFSLDTSVSTAYLQISSLKAEDTAVYYCAR
abcde 110
CD40 SGNGNYDLAYFAYWGQGTLVTVSA
JH4 YFDYWGQGTLVTVSS

FIGURE 2

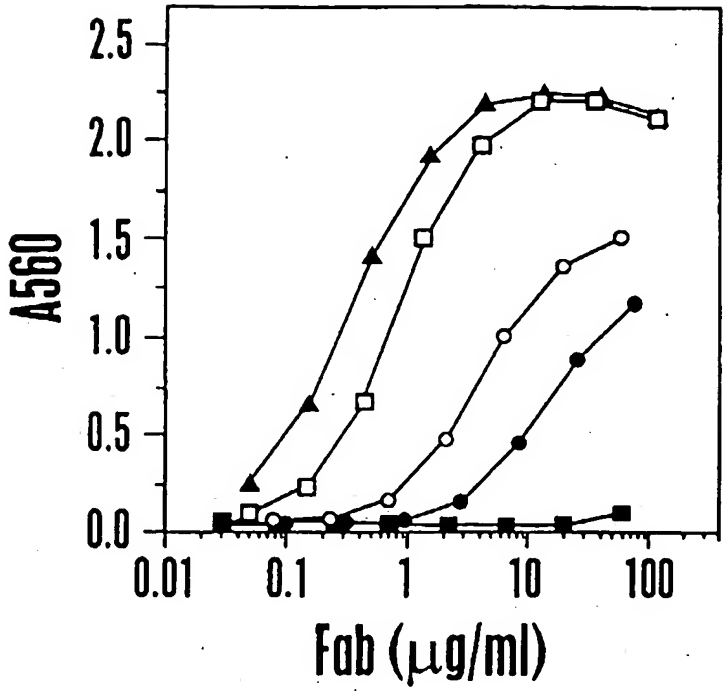


Fig. 2A

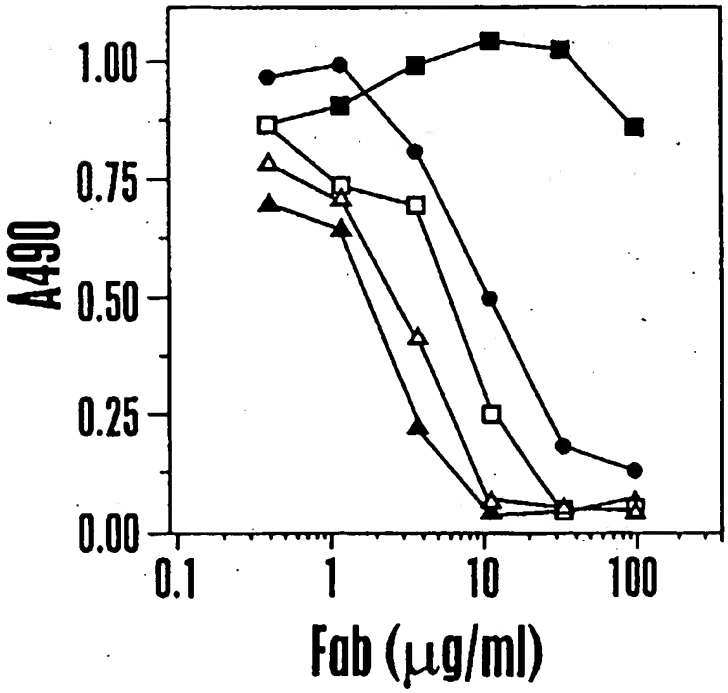


Fig. 2B

FIGURE 3

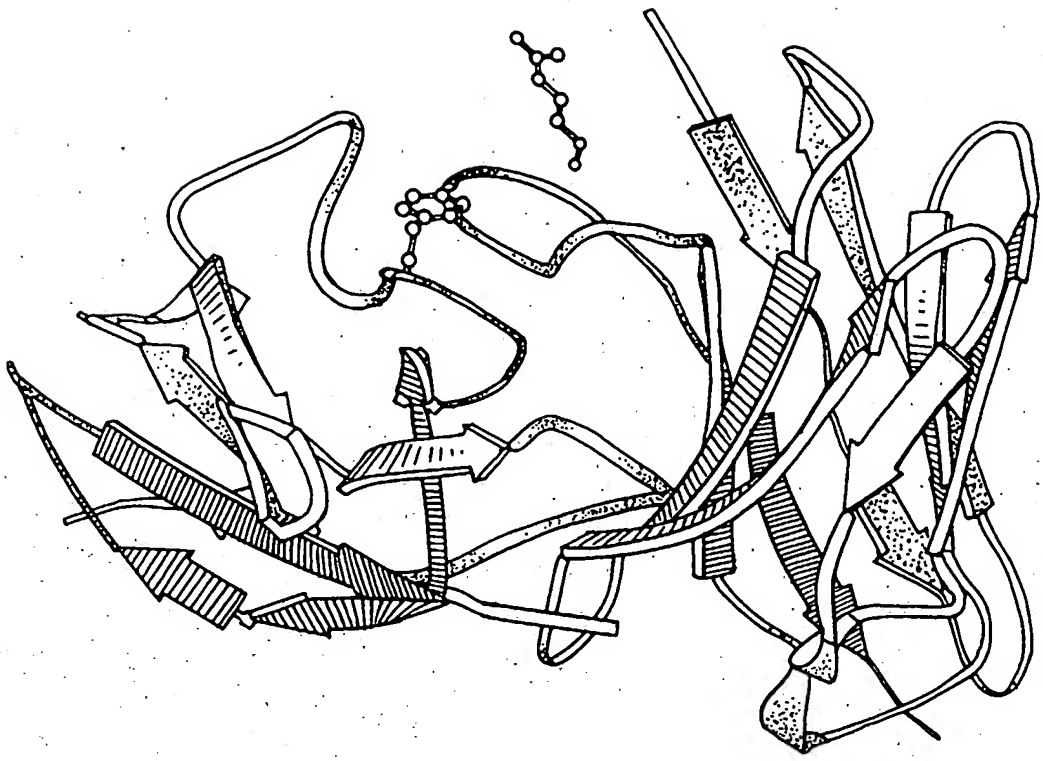


FIGURE 4

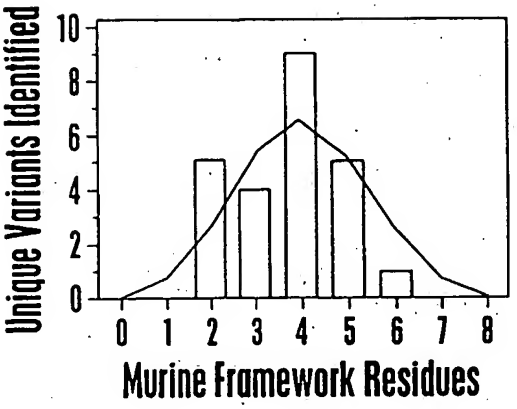


Figure 4A

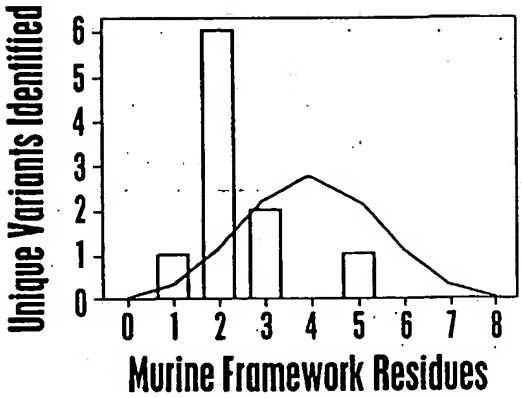


Figure 4B

FIGURE 5

V_H Domain

```
                    FR1                CDR-H1        FR2          CDR-H2                    FR3

                      1         2          3          4          5         6          7         8          9
          12345678901234567890123456  6789012345  67890123456789  0123456789012345  67890123456789012abc345678901234

NMC4       VQLLESGPGLVAPSQSLSITCTVS  GFSLTDYGVD  WVRQPPGKGLEWLG  MIWGDGSTDYNSALKS  RLSITKDNSKSQVFLKMNSLQTDDTARYYCVR
VH3-72     EVQLVESGGGLVQPGGSLRLSCAAS  ----------  WVRQAPGKGLEWVG  ----------------  RFTISRDDSKNSLYLQMNSLKTEDTAVYYCAR
```

```
                CDR-H3
                 1                 1
                 0                 1
          567890abcdef12  3456789012
NMC4      DPADYGNYDYALDY  WGQGTSVTVS  (SEQ ID NO:5)
JH6a      --------------  WGQGTTVTVS  (SEQ ID NO:7)
```

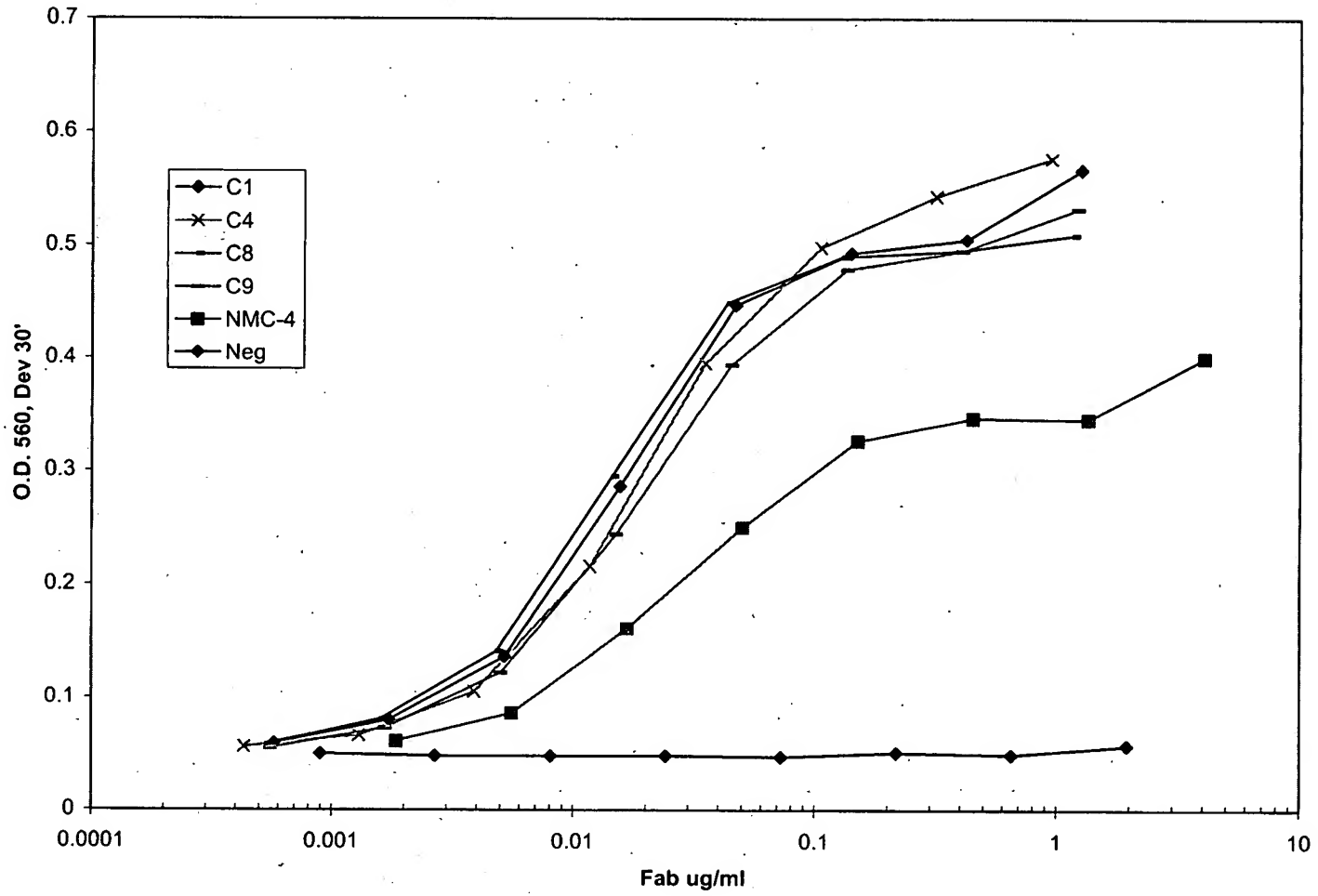
V_K Domain

```
                    FR1                CDR-L1        FR2          CDR-L2                    FR3

                      1         2          3          4          5         6          7         8
          123456789012345678901234  5678901234  567890123456789  0123456  78901234567890123456789012345678

NMC4 VL             SSLSASLGDRVTISC  SASQDINKYLN  WYQQKPDGAVKLLIF  YTSSLHS  GVPSRFSGSGSGTDYSLTISNLEPEDIATYYC
VKIDPK9/012  DIQMTQSPSSLSASVGDRVTITC  ----------  WYQQKPGKAPKLLIY  -------  GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC
```

```
              CDR-L3
                    1
             9      0
          901234567  8901234567
NMC4 VL   QQYEKLPWT  FGGGTKLEVK  (SEQ ID NO:6)
JK4       ---------  FGGGTKVEIK  (SEQ ID NO:8)
```

FIGURE 6

vWF Elisa of Combinatorial Positives